

METHODS OF USE OF  
RECOMBINANT VASOACTIVE PROTEIN  
FROM SALIVARY GLAND OF THE BLACK FLY

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ABSTRACT OF THE DISCLOSURE

The invention is drawn to vasodilative proteins from the salivary glands of the species, *Simulium*. The protein additionally has immunomodulating activities. Methods for recombinant production of the protein as well as biomedical uses are provided.